**Table 1: SCF RBR Text Changes** CCR 98-0659 Rev A

req_b	paragra	objec	relea	text	clarificat	req_interpret	req_Cat	segm	req_	s_veri	s_verifi		a_verif	CCR
y_rel	ph_id	t_id	se		ion	ation	egory	ent_a	type	ficatio	cation_	rific	ication	
								llocat		n_met	stat	atio	_stat	
								ion		hod		n_m		
												etho		
												d		
Cc	SCF-	8643	B1	The SCF interface		External	N/A_pr		proc	not	N/A_p	not	-1	97-
	0001#B			platform shall		requirement:	ocedura	-	edur	verifie	rocedu	verif		0710A
				adhere to		Information	1	dural	al	d by	ral	ied	ral	
				requirements		only. No				ECS		by		
				specified in the		action is						ECS		
				Data Production		required by								
				Software and SCF		ECS.								
				Standards and										
				Guidelines,										
				GSFC 423-16-01.										
				This standards										
				document includes										
				SCF requirements										
				for <del>operating</del>										
				system, computer										
				communications,										
				e-mail protocol,										
				and windowing										
				<del>protocol.</del>										
Ct	SCF-			The SCF interface										
	0001#B			platform shall										
				adhere to										
				requirements										

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- 3.0 0 0.			701	1	Т	I		1		I			l	1
				specified in the										
				Data Production										
				Software and SCF										
				Standards and										
				Guidelines,										
				GSFC 423-16-01.										
				This standards										
				document includes										
				SCF requirements										
				for software.										
Cc	SCF-	8646	B0	The SCF interface		External only	N/A_pr	N/A_	proc	not	N/A_p	not	N/A_p	97-
	0010#B			shall consist of an		requirement:	ocedura	proce	edur	verifie	rocedu	verif	rocedu	0710A
				ESDIS approved		Information	1	dural	al	d by	ral	ied	ral	
				computing		only. No				ECS		by		
				platform that shall		action is						ECS		
				have a C compiler.		required by								
				To access		ECS.								
				FORTRAN										
				routines in the										
				ECS Toolkits, the										
				platform shall also										
				have a FORTRAN										
				compiler.										
Ct	SCF-			The SCF interface										
	0010#B			shall consist of an										
				ESDIS approved										
				computing										
				platform that shall										
				have a C compiler.										
				To access										

**Table 1: SCF RBR Text Changes** 

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Dasca	on may	17, 17	// IX	TWI Dascille									
				FORTRAN									
				routines in the									
				SDP Toolkits, the									
				platform shall also									
				have a FORTRAN									
				compiler.									
Cc	SCF-	8653	B0	The SCF interface	External only	N/A_pr	N/A_	proc	not	N/A_p	not	N/A_p	97-
	0025#B			platform shall	requirement:	ocedura	proce	edur	verifie	rocedu	verif	rocedu	0710A
				provide one of the	Information	1	dural	al	d by	ral	ied	ral	
				following levels of	only. No				ECS		by		
				security for	action is						ECS		
				interoperation with	required by								
				ECS:	ECS.								
				a. <del>Kerberized</del>									
				authentication for									
				bi-directional file									
				transfers.									
				b. User of									
				Distributed									
				Computing									
				Environment									
				(DCE) for									
				authentication of									
				users,									
				authorization of									
				users for access to									
				services such as									
				remote file access,									
				and provision for									
				integrity of data									

**Table 1: SCF RBR Text Changes** CCR 98-0659 Rev A

		 being transferred.			
Ct	SCF-	The SCF interface			
	0025#B	platform shall			
		provide one of the			
		following levels of			
		security for			
		interoperation with			
		ECS:			
		a. <u>Password-</u>			
		protected			
		authentication for			
		bi-directional file			
		transfers <u>and</u>			
		<u>kerberized telnet</u>			
		(ktelnet) for SCF			
		remote access to			
		the DAAC system.			
		Alternatively,			
		secure shell may			
		be used instead of			
		ktelnet.			
		b. User of			
		Distributed			
		Computing			
		Environment			
		(DCE) for			
		authentication of			
		users,			
		authorization of			
		users for access to			

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	1		7 0 1							1	ı		
				services such as									
				remote file access,									
				and provision for									
				integrity of data									
				being transferred.									
Cc	SCF-	8660	B0	The ECS shall		mission	SDP	inter	demo	un-	dem	un-	97-
	0060#B			have the capability		essentia	S	face		verified	0	verifie	0710A
				to provide to the		1						d	
				SCF the Toolkit									
				Delivery and									
				Update Package.									
				This package									
				includes the <del>PGS</del>									
				toolkit which									
				supplies tools for									
				the emulation of									
				the ECS									
				production									
				environment									
				and contains-a									
				ECS-standardized									
				software routines									
				to aid in science									
				data production									
				software									
				development.									
Ct	SCF-			The ECS shall									
	0060#B			have the capability									
				to provide to the									
				SCF the Toolkit									

**Table 1: SCF RBR Text Changes** 

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				T =	T					1			
				Delivery and									
				Update Package.									
				This package									
				includes the <u>SDP</u>									
				toolkit which									
				supplies tools for									
				the emulation of									
				the ECS									
				production									
				environment and									
				contains ECS-									
				standardized									
				software routines									
				to aid in science									
				data production									
				software									
				development.									
Cc	SCF-	9304	B0	The ECS shall	These	mission	SDP	inter	demo	un-	dem	un-	97-
	0070#B			have the capability	specifications	essentia	S	face		verified	0	verifie	0710A
				to provide	are actually	1						d	
				Integration and	requirements								
				Test	for the								
				Specifications to	science								
				the scientist at the	software								
				SCF. These	packages that								
				specifications are	SCFs provide								
				defined by the	to DAACs								
				Data Processing	and the Data								
				Focus Team.	Processing								
				These	Focus Team								

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		 > 0 It I I I Duselline				
		specifications are	is no longer			
		implemented in the	in existence.			
		Data Production				
		Software Delivery				
		Package and				
		support smooth				
		integration of the				
		data production				
		software into the				
		ECS production				
		environment.				
Ct	SCF-	The ECS shall				
	0070#B	have the capability				
		to provide				
		Integration and				
		Test				
		Specifications to				
		the scientist at the				
		SCF. These				
		specifications are				
		defined by the				
		Data Processing				
		Focus Team.				
		These				
		specifications are				
		implemented in the				
		<u>Delivered</u>				
		<u>Algorithm</u>				
		Package (DAP)				
		and support				

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	011 11143		/ / 1	1	1					1	ı		
				smooth integration									
				of the data									
				production									
				software into the									
				ECS production									
				environment.									
Cc	SCF-	9832	B0	The SCF shall	This implies a	mission	SDP	inter	test	un-	test	un-	97-
	0090#B			have the capability	requirement	essentia	S	face		verified		verifie	1374C
				to provide ECS	for ECS to	1						d	
				with the <del>Data</del>	receive Data								
				Production	Production								
				Software Delivery	Software								
				Package with	Delivery								
				"Required Items	Packages that								
				For Delivery" as	SCFs send.								
				specified by the									
				Science User's									
				Guide and									
				Operations									
				Procedure									
				Handbook for the									
				ECS Project.									
Ct	SCF-			The SCF shall									
	0090#B			have the capability									
				to provide ECS									
				with the <u>Delivered</u>									
				Algorithm									
				Package (DAP)									
				with "Required									
				Items For									

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				Delivery" as specified by the Science User's Guide and Operations Procedure Handbook for the ECS Project.									
Сс	SCF- 0120#B	9833	ВО	The ECS shall have the capability to receive Data Production Software-Updates from the SCF. These Data Production Software Updates include modifications to any data production software already submitted to the ECS by the SCF. The Data Production Software Updates may include some or all the items required in the	No change in Data Producti on softwar e interface from B0 to B1	mission essentia 1	SDP S	inter face	test	un- verified	test	un- verifie d	97- 1374C

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				Data Production									
				Software Delivery									
				Package.									
Ct	SCF-			The ECS shall									
	0120#B			have the capability									
				to receive									
				Delivered									
				Algorithm									
				Package (DAP)									
				Updates from the									
				SCF. DAP									
				Updates include									
				modifications to									
				any data									
				production									
				software already									
				submitted to the									
				ECS by the SCF.									
				The <u>DAP</u> Updates									
				may include some									
				or all the items									
				required in the									
				DAP.									
Cc	SCF-	9834	B <del>0</del>	The ECS shall	ECS	mission	SDP	inter	test	un-	test	un-	97-
	0130#B			have the capability	receives	essentia	S	face		verified		verifie	1374C
				to receive Special	L1-L4	1						d	
				Products from the	Special								
				SCF. These shall	product								
				include L1 - L4	s from								
				Special Products.	SCF -								

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						1			1					
					no change									
					from B0									
					to B1;									
					other									
					related									
					Special									
					Product									
					require									
					ments									
					SCF-									
					0130-									
					0170#B,									
					and -									
					0190#B									
					were all									
					allocate									
					d to B0									
					by IV&V									
Ct	SCF-		B <u>1</u>		1 V & V									
	0130#B		D <u>1</u>											
Cc	SCF-	9835	B <del>0</del>	The ECS shall			mission	SDP	inter	test	un-	test	un-	97-
	0140#B			have the capability			essentia	S	face		verified		verifie	1374C
				to receive			1						d	
				Metadata, related										
				to Special										
				Products, from the										
_				SCF.										
Ct	SCF-		B <u>1</u>											

**Table 1: SCF RBR Text Changes** 

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Dusca		1, 1, 1,	770 1	TWI Baseine	I	1	1	1		T	1	T	T
	0140#B												
Cc	SCF-	9836	$B\theta$	The ECS shall		mission	SDP	inter	test	un-	test	un-	97-
	0150#B			have the capability		essentia	S	face		verified		verifie	1374C
				to receive		1						d	
				Ancillary Data,									
				related to									
				Special Products,									
				from the SCF.									
Ct	SCF-		B <u>1</u>										
	0150#B												
Cc	SCF-	9837	B <del>0</del>	The ECS shall		mission	SDP	inter	test	un-	test	un-	97-
	0160#B			have the capability		essentia	S	face		verified		verifie	1374C
				to receive		1						d	
				Calibration Data,									
				related to Special									
				Products, from the									
				SCF.									
Ct	SCF-		B <u>1</u>										
	0160#B												
Cc	SCF-	9838	B <del>0</del>	The ECS shall		mission	SDP	inter	test	un-	test	un-	97-
	0170#B			have the capability		essentia	S	face		verified		verifie	1374C
				to receive		1						d	
				Correlative Data,									
				related to									
				Special Products,									
				from the SCF.									
Ct	SCF-		B <u>1</u>										
	0170#B												
Cc	SCF-	9840	B <del>0</del>	The ECS shall		mission	SDP	inter	test	un-	test	un-	97-
	0190#B			have the capability		essentia	S	face		verified		verifie	1374C

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	011 1:100	, ,,		Tivi Dascinic	1	1							1
				to receive Data		1						d	
				Production									
				Software,									
				related to Special									
				Products, from the									
				SCF.									
Ct	SCF-		B <u>1</u>										
	0190#B												
ADD	SCF-		<u>B1</u>	The ECS shall		mission	<u>SDP</u>	<u>inter</u>	<u>test</u>	<u>un-</u>	<u>test</u>	un-	
	<u>0192#B</u>			have the capability		<u>essentia</u>	<u>S</u>	<u>face</u>		verified		<u>verifie</u>	
				to receive Browse		1						<u>d</u>	
				Data, related to									
				Special Products,									
				from the SCF.									
ADD	SCF-		<u>B1</u>	The ECS shall		mission	SDP	<u>inter</u>	<u>test</u>	un-	<u>test</u>	un-	
	<u>0194#B</u>			have the capability		essentia	<u>S</u>	<u>face</u>		verified		verifie	
				to receive Guide		1						<u>d</u>	
				<u>Information</u>									
				related to Special									
				Products, from the									
				SCF.									
Cc	SCF-	8692	B0	The ECS shall		mission	SDP	inter	demo	un-	dem	un-	97-
	0200#B			have the capability		essentia	S	face		verified	О	verifie	0710A
				to receive from the		1						d	
				SCF a QA									
				Notification									
				Specification. This									
				specification,									
				submitted by the									
				scientist at the									

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			/ / 11	ı	1	1					1			
				SCF, describes the										
				conditions under										
				which data should										
				be forwarded to										
				the SCF for QA.										
Ct	SCF-			The ECS shall										
	0200#B			have the capability										
				to receive from the										
				SCF a QA Data										
				Subscription										
				Request. This										
				request, submitted										
				by the scientist at										
				the SCF, describes										
				the conditions										
				under which data										
				should be										
				forwarded to the										
				SCF for QA.										
Cc	SCF-	8695	B0	The ECS shall	QA	This	mission	SDP	inter	demo	un-	dem	un-	97-
	0210#B			have the capability	Data	notification is	essentia	S	face		verified	О	verifie	0710A
				to send a Data	notificat	an action to	1						d	
				Quality Request	ion -	be taken by								
				Notification to the	always	ECS after the								
				SCF. This	email	occurrence of								
				notification is sent		a triggering								
				when QA		event per a								
				notification criteria		subscription								
				are met during		that the SCF								
				routine ECS		had								

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processing. The previously notification states entered. the data product SCFs no and the time by longer have a which a time limit by notification, and which they optionally data, must must be evaluated complete and returned to the their QA of ECS for inclusion science data, as an update to the but the product metadata. metadata will reflect the lack or presence of the QA. The ECS shall Ct SCF-0210#B have the capability to send a QA Data **Subscription Event** Notification to the SCF. This notification is sent when QA notification criteria are met during routine ECS processing. The notification states the data product

#### Table 1: SCF RBR Text Changes CCR 98-0659 Rev A

				and the time by which a notification, and optionally data, must be evaluated and returned to the ECS for inclusion as an update to the product metadata.									
Сс	SCF- 0220#B	8700	B0B 1	The ECS shall have the capability to receive from the SCF a Request for Data to QA. This request may be a standing request specified in the QA Notification Specification and may include the data product specified in the Data Quality Request Notification, or other data required by the scientist to QA the data product.	This is a request for data distribution whether the request is made as part of a subscription or as a data order.	mission essentia 1	SDP S	inter	demo	un- verified	dem o	un- verifie d	97- 0710A

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			701	1 WI Daseille	1	1		1			1		1	1
Ct	SCF-			The ECS shall										
	0220#B			have the capability										
				to receive from the										
				SCF a Request for										
				Data to QA. This										
				request may be a										
				standing request										
				specified in the										
				QA <u>Data</u>										
				<u>Subscription</u>										
				Request and may										
				include the data										
				product specified										
				in the <b>QA</b> Data										
				Subscription Event										
				Notification, or										
				other data required										
				by the scientist to										
				QA the data										
				product.										
Cc	SCF-	8706	B1	The ECS shall	<del>On</del>	On Time QA	mission	SDP	inter	test	un-	test	un-	97-
	0240#B			have the capability	Time	is reflected in	essentia	S	face		verified		verifie	0818A
				to receive an On	QA=	ECS as	1						d	
				Time QA from the	Metadat	Metadata								
				SCF. This shall	a	Updates that								
				consist of the	updates	are made to								
				science QA codes	= B.1	in response								
				describing the		to data QA								
				results of		by the SCF.								
				product QA and		Also, no								

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	1		7 7 7 7							1			1	1
				any further		distinction is								
				instructions to the		presently								
				ECS. The ECS		made								
				shall accept the On		between on-								
				Time QA when it		time QA and								
				is received within		QA that is								
				the time-out		not on time.								
				period specified										
				in the Data Quality										
				Request										
				Notification. ECS										
				shall accept post-										
				time-out										
				QA updates as										
				Metadata Updates										
				as specified by										
				Requirement SCF-										
				0250.										
			B0B	The ECS shall	<remov< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></remov<>									
			1	have the capability	e>									
				to receive an On										
				Time QA from the										
				SCF. This										
				requirement is										
				implemented as										
				Metadata Updates										
				as specified by										
				Requirement SCF-										
				0250.										
Сс	SCF-	8708	B1	The ECS shall	Metadat	On Time QA	mission	SDP	inter	test	un-	test	un-	97-

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	0250#B		have the capability	a	is the same as	essentia	S	face	verified	verifie	0818A
	0230111		to receive	<del>updates</del>	Metadata	1		1400	Torrica	d	001011
			Metadata Updates	$\equiv B.1$	Updates.	•				•	
			from the SCF.	- <b>D</b> .1	Also, no						
			These shall include		distinction is						
			the science QA		presently						
			codes and		made						
			optionally a report		between on-						
			describing the		time QA and						
			results of product		QA that is						
			QA and any		not on-time.						
			further instructions		Metadata						
			to the ECS. The		updates will						
			ECS shall only		be accepted						
			accept Metadata		whenever						
			Updates when they		appropriate.						
			are								
			received after the								
			time allotment								
			specified in the								
			<del>Data Quality</del>								
			Request								
			Notification.								
Ct	SCF-	<u>B0</u> B	The ECS shall	<remov< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></remov<>							
	0250#B	1	have the capability	e>							
			to receive								
			Metadata Updates								
			from the SCF.								
			These shall include								
			the science QA								

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Dusc	u on may	17, 1.	//U I	TWI Dasellile		1	ı	1	1	1	1		1
				<u>flags.</u>									
Cc	SCF-	8720	B0	The SCF shall	ECS has an	mission	SDP	inter	demo	un-	dem	un-	97-
	0380#B			have the capability	implied	essentia	S	face		verified	О	verifie	0710A
				to send a Request	requirement	1						d	
				for Product	to receive the								
				History (including	status								
				the algorithms	requests from								
				used) to the ECS	SCFs.								
				for the history of	Product								
				data products that	history means								
				the SCF specifies.	production								
					history.								
Ct	SCF-			The SCF shall	ECS has an								
	0380#B			have the capability	implied								
				to send a Request	requirement								
				for Production	to receive the								
				History	status								
				(including the	requests from								
				algorithms used)	SCFs.								
				to the ECS for the									
				history of data									
				products that the									
				SCF specifies.									
Cc	SCF-	8721	B0	The ECS shall	Product	mission	SDP	inter	demo	un-	dem	un-	97-
	0390#B			have the capability	history means	essentia	S	face		verified	О	verifie	0710A
				to provide SCF	production	1						d	
				with the Product	history.								
				History of data									
				products that the									
				SCF specifies.									

**Table 1: SCF RBR Text Changes** 

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Ct	SCF-	The ECS shall	<remove></remove>			
	0390#B	have the capability				
		to provide SCF				
		with the				
		Production Production				
		History of data				
		products that the				
		SCF specifies.				